

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P572133

Luminaire Tested: 24ID-30-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-30-L830-DBD
Description: 3000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

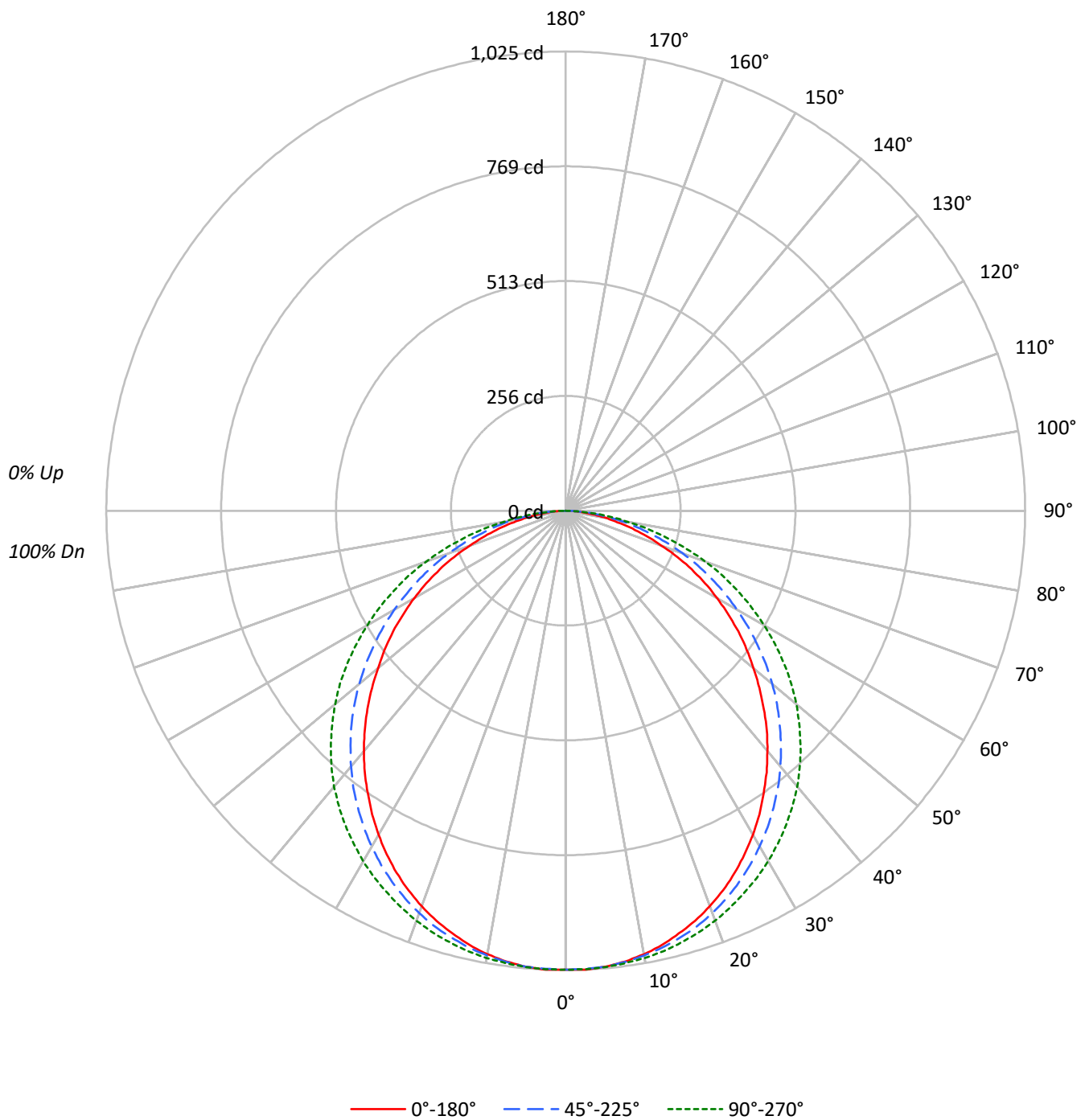
Lumens per Lamp: N/A
Luminaire Lumens: 2922.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P572133

CATALOG NUMBER: 24ID-30-L830-DBD

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	58	51	46	56	50	45
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1378	1378	1378
5°	1375	1369	1371
10°	1363	1356	1365
15°	1345	1342	1359
20°	1325	1326	1353
25°	1299	1304	1345
30°	1267	1279	1339
35°	1228	1251	1330
40°	1188	1218	1320
45°	1142	1181	1302
50°	1089	1139	1279
55°	1041	1086	1247
60°	978	1029	1202
65°	905	961	1142
70°	802	875	1055
75°	692	754	927
80°	548	613	725
85°	377	379	436

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1302 cd/sqm

TEST NUMBER: P572133

CATALOG NUMBER: 24ID-30-L830-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	3.3
10°-20°	278.6	9.5
20°-30°	422.3	14.5
30°-40°	508.0	17.4
40°-50°	524.4	17.9
50°-60°	471.2	16.1
60°-70°	358.8	12.3
70°-80°	206.0	7.1
80°-90°	55.6	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	798.0	27.3
0°-40°	1306.0	44.7
0°-60°	2301.6	78.8
0°-90°	2922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1021	1022	1021	1020	1022	97
15°	977	982	986	993	998	276
25°	892	901	915	934	942	411
35°	770	783	808	844	857	482
45°	625	639	676	722	741	482
55°	470	483	522	572	595	420
65°	310	324	359	401	423	306
75°	154	168	193	220	234	163
85°	36	42	49	52	55	42
90°	0	0	0	0	0	

TEST NUMBER: P572133

CATALOG NUMBER: 24ID-30-L830-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.2	1024.2	1024.2	1024.2	1024.2
2.5°	1025.2	1025.2	1023.3	1022.3	1024.2
5°	1021.4	1022.3	1021.4	1020.4	1022.3
7.5°	1014.7	1015.7	1015.7	1016.6	1018.5
10°	1005.2	1007.1	1008.1	1010.9	1013.8
12.5°	992.9	994.8	998.6	1003.3	1007.1
15°	976.7	981.5	986.2	992.9	997.6
17.5°	959.6	965.3	972.9	981.5	987.2
20°	939.6	946.3	955.8	967.2	973.8
22.5°	916.8	925.4	936.8	951.0	958.6
25°	892.1	900.7	914.9	933.9	941.5
27.5°	864.6	874.1	891.2	913.0	923.5
30°	835.1	845.6	865.5	892.1	903.5
32.5°	803.8	815.2	838.0	868.4	880.7
35°	769.6	782.9	808.5	843.7	857.0
37.5°	736.3	749.6	778.1	816.1	831.3
40°	700.2	714.5	744.9	786.7	803.8
42.5°	664.1	676.5	710.7	755.3	773.4
45°	625.2	639.4	675.5	722.1	741.1
47.5°	586.2	601.4	639.4	686.9	706.9
50°	546.3	562.5	601.4	649.9	671.7
52.5°	509.3	522.6	562.5	611.9	634.7
55°	470.3	482.6	521.6	572.0	594.8
57.5°	429.4	443.7	482.6	530.2	553.0
60°	389.5	403.8	440.8	488.4	511.2
62.5°	350.6	363.9	400.0	445.6	468.4
65°	309.7	324.0	359.1	400.9	422.8
67.5°	269.8	285.0	318.3	356.3	379.1
70°	227.1	244.2	276.5	311.6	329.7
72.5°	189.1	205.2	234.7	266.0	283.1
75°	153.9	168.2	192.9	220.4	233.7
77.5°	118.8	134.0	155.8	176.7	187.2
80°	87.4	101.7	118.8	133.0	137.8
82.5°	59.9	70.3	82.7	90.3	96.9
85°	36.1	41.8	49.4	52.3	55.1
87.5°	15.2	17.1	20.0	19.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 24ID-30-L830-DBD

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.72	13.36	12.08	13.68	13.99	13.19	14.83	13.55	15.14	15.46
	3H	13.29	14.77	13.66	15.10	15.46	15.09	16.57	15.46	16.90	17.26
	4H	13.80	15.21	14.20	15.55	15.93	15.79	17.19	16.19	17.54	17.91
	6H	14.13	15.43	14.54	15.80	16.19	16.28	17.58	16.69	17.95	18.34
	8H	14.22	15.46	14.64	15.85	16.25	16.43	17.67	16.85	18.05	18.45
	12H	14.26	15.45	14.69	15.83	16.26	16.50	17.69	16.93	18.07	18.50
4H	2H	12.47	13.87	12.87	14.22	14.60	13.64	15.04	14.04	15.39	15.77
	3H	14.24	15.41	14.65	15.81	16.21	15.76	16.93	16.17	17.33	17.73
	4H	14.86	15.93	15.29	16.34	16.78	16.59	17.65	17.02	18.07	18.50
	6H	15.30	16.23	15.75	16.67	17.12	17.21	18.14	17.67	18.59	19.04
	8H	15.41	16.28	15.87	16.72	17.19	17.40	18.27	17.86	18.71	19.18
	12H	15.48	16.26	15.96	16.74	17.21	17.52	18.30	18.00	18.78	19.25
8H	4H	15.25	16.12	15.71	16.56	17.02	16.78	17.66	17.24	18.10	18.56
	6H	15.78	16.51	16.28	17.00	17.47	17.51	18.23	18.00	18.72	19.20
	8H	15.95	16.60	16.46	17.11	17.59	17.76	18.41	18.26	18.91	19.40
	12H	16.07	16.64	16.57	17.13	17.69	17.93	18.50	18.43	18.99	19.55
12H	4H	15.30	16.08	15.77	16.55	17.02	16.79	17.58	17.27	18.05	18.52
	6H	15.86	16.51	16.37	17.01	17.50	17.53	18.18	18.03	18.68	19.17
	8H	16.08	16.65	16.58	17.14	17.70	17.82	18.39	18.32	18.88	19.44